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(54) Title: IMPROVED METHOD FOR BISULFITE TREATMENT

(57) Abstract: The present application is directed to a method for performing a bisulfite reaction to determine methylation positions in a nucleic acid, i.e. methylated and non-methylated cytosines, whereby the nucleic acid is incubated in a solution comprising the nucleic acid for a time period of 1.5 to 3.5 hours at a temperature between 70 and 90 °C, whereby the concentration of bisulfite in the solution is between 3 M and 6.25 M and whereby the pH value of the solution is between 5.0 and 6.0 whereby the nucleic acid, i.e. the cytosine bases in the nucleic acid, are deaminated. Then the solution comprising the deaminated nucleic acid is desulfonated and preferably desalated. The application is further related to a solution comprising bisulfite with a certain pH and uses thereof as well as a kit comprising the solution.

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